

## Accentuate the Negative Unit Test

### Multiple Choice

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1. (1 point) In which quadrant does the point  $(-9, 7)$  lie?  
 A. I                      B. II                      C. III                      D. IV
- \_\_\_\_\_ 2. (1 point)  $-45 + 23 \times 2 - 1 =$  \_\_\_\_\_  
 A. 43                      B. -22                      C. 0                      D. 68
- \_\_\_\_\_ 3. (1 point) Given the expression  $6 \times (14 - 7)$ , find the expression that is NOT equivalent.  
 A.  $(6 \times 14) - 7$                       C.  $(6 \times 14) - (6 \times 7)$   
 B.  $6 \times 7$                       D.  $(6 \times 14) + (6 \times -7)$

**Name the opposite of the integer.**

- \_\_\_\_\_ 4. (1 point)  $-3$   
 A.  $-\frac{1}{3}$                       B. 3                      C.  $-3$                       D.  $\frac{1}{3}$

**Compare. Use  $<$ ,  $=$ , or  $>$ .**

- \_\_\_\_\_ 5. (1 point)  $|-14|$   $\square$   $|10|$   
 A.  $=$                       B.  $<$                       C.  $>$
- \_\_\_\_\_ 6. (1 point)  $|-10|$   $\square$   $|11|$   
 A.  $>$                       B.  $=$                       C.  $<$

**Simplify the expression.**

- \_\_\_\_\_ 7. (1 point)  $|-66 - 40|$   
 A. 26                      B. -26                      C. -106                      D. 106
- \_\_\_\_\_ 8. (1 point) Find the absolute value.  
 $|-72|$   
 A.  $-\frac{1}{72}$                       B. -72                      C. 72                      D.  $\frac{1}{72}$

**Standard: Solves problems involving positive and negative numbers.**

4	3.5	3	2.5	2	1.5	1
46-49	42-45	38-41	34-37	30-33	26-29	0-25

Point Total \_\_\_\_\_

Performance Level \_\_\_\_\_

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ 9. (1 point) Compare. Write  $<$ ,  $>$ , or  $=$ .

$$|11| \quad \blacksquare \quad |-3|$$

A.  $>$

B.  $<$

C.  $=$

**Find the product.**

\_\_\_\_\_ 10. (1 point)  $-7 \times (-5)$

A.  $-12$

B.  $-2$

C.  $-35$

D.  $35$

**Find the quotient.**

\_\_\_\_\_ 11. (1 point)  $8 \div (-4)$

A.  $-2$

B.  $\frac{1}{2}$

C.  $2$

D.  $-\frac{1}{2}$

\_\_\_\_\_ 12. (1 point)  $-16 \div (-8)$

A.  $-\frac{1}{2}$

B.  $\frac{1}{2}$

C.  $-2$

D.  $2$

**Find the value of the expression.**

\_\_\_\_\_ 13. (1 point)  $4 \times 3 + 30 \div 5$

A.  $47$

B.  $8.4$

C.  $18$

D.  $26.4$

### Short Answer

**Solve the problem.**

14. (1 point)  $-7 + -10$

15. (1 point)  $-13 - -11 =$

16. (1 point)  $\frac{-30}{-6} =$

17. (1 point)  $20 \times -6 =$

18. (1 point)  $-11 \times -5 =$

19. (1 point)  $-24 \div 3 =$

20. (1 point)  $150 + -24 =$

21. (1 point)  $90 - -99 =$

**Tell how far apart the two numbers are on a number line.**

22. (1 point)  $-15$  and  $+20$

23. (1 point)  $-5$  and  $-12$

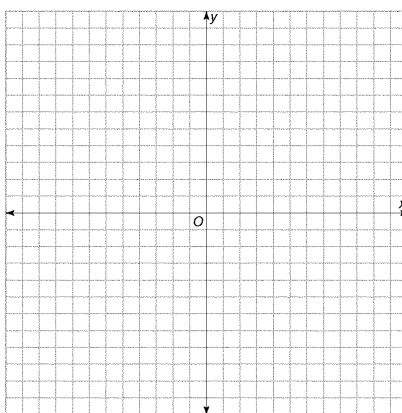
**Insert Always, Sometimes, or Never to make a true statement.**

24. (1 point) The sum of two negative integers is \_\_\_\_\_ negative.
25. (1 point) The product of two negative integers is \_\_\_\_\_ negative.
26. (1 point) The sum of a negative integer and a positive integer is \_\_\_\_\_ positive.
27. (1 point) The product of a negative integer and a positive integer is \_\_\_\_\_ negative.
28. (3 points) **a.** Below is a grid with four quadrants. Plot the following points, and connect them with line segments.

Point  $A (-1,0)$

Point  $B (-3,4)$

Point  $C (-4,0)$



- b.** Without drawing, predict what will happen to  $ABC$  using the rule  $(3x, -3y)$ . Your explanation should include size and location.

29. (1 point) Write a number less than  $(-1000)$ .
30. (2 points) Use this information: Suppose you are in a building in which the floors are numbered from 0 to 15. The building has an underground parking garage with 10 levels, which are numbered from  $-1$  to  $-10$ . Which floor is *farther from* floor  $-2$ ? (Drawing a picture may help you solve this problem.)
- a.** floor 7 or floor  $-10$
- b.** floor 2 or floor  $-8$

31. (3 points) Use the distributive property to write an expression equal to each of the following.

a.  $-2 \cdot (-8 + 5)$

b.  $(7 \cdot 2) - (7 \cdot 12)$

c.  $x \cdot (9 + -5)$

**Find two numbers that meet the given conditions.**

32. (2 points) The middle number is  $-13$ .

The distance between the two endpoint numbers on the number line is 30.

33. (2 points) The numbers are opposites.

The distance between the two numbers on the number line is 18.

34. (4 points) Find the answers to the following expressions.

a.  $-5 \times 7 + 10 \div 2 =$

b.  $3 + -5 \times 4 - 2 =$

c.  $(8 - 20) \div 2^2 - 5 \times -3 =$

d.  $12 - 8 + 4 - 3 =$

35. (2 points) Four friends plan to go to a movie. They know it is \$5.00 for a ticket and \$3.00 for popcorn.

Using the distributive property, write two expressions to show how you could compute the total cost. One expression should be in factored form and the other in expanded form.

36. (3 points) The list below gives monthly average low temperatures (in ° Fahrenheit) for International Falls, Minnesota from November through March.

17, 0,  $-9$ ,  $-3$ , 10

a. What is the mean (average) of these monthly low temperatures? Show your work.

b. What is the difference between the highest and lowest temperatures (range)?

**Accentuate the Negative Unit Test  
Answer Section**

**MULTIPLE CHOICE**

- |            |        |
|------------|--------|
| 1. ANS: B  | PTS: 1 |
| 2. ANS: C  | PTS: 1 |
| 3. ANS: A  | PTS: 1 |
| 4. ANS: B  | PTS: 1 |
| 5. ANS: C  | PTS: 1 |
| 6. ANS: C  | PTS: 1 |
| 7. ANS: D  | PTS: 1 |
| 8. ANS: C  | PTS: 1 |
| 9. ANS: A  | PTS: 1 |
| 10. ANS: D | PTS: 1 |
| 11. ANS: A | PTS: 1 |
| 12. ANS: D | PTS: 1 |
| 13. ANS: C | PTS: 1 |

**SHORT ANSWER**

- |                  |        |
|------------------|--------|
| 14. ANS:<br>-17  | PTS: 1 |
| 15. ANS:<br>-2   | PTS: 1 |
| 16. ANS:<br>5    | PTS: 1 |
| 17. ANS:<br>-120 | PTS: 1 |
| 18. ANS:<br>55   | PTS: 1 |
| 19. ANS:<br>-8   | PTS: 1 |

20. ANS:  
126

PTS: 1

21. ANS:  
189

PTS: 1

22. ANS:  
35 units

PTS: 1

23. ANS:  
7

PTS: 1

24. ANS:  
Always

PTS: 1

25. ANS:  
Never

PTS: 1

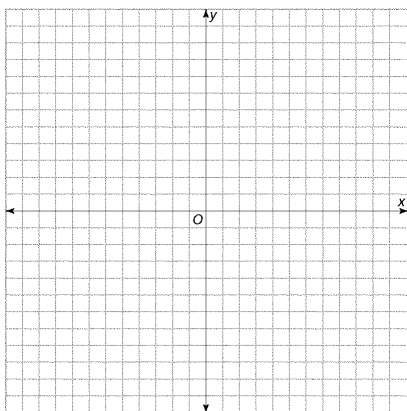
26. ANS:  
Sometimes

PTS: 1

27. ANS:  
Always

PTS: 1

28. ANS:



This triangle will have lengths three times as long as the original's and will now be in quadrant III.  
(Note: This is a reflection across the  $x$ -axis.)

PTS: 3

29. ANS:

Possible answers:  $-1001, -1003, -1000.2$ 

PTS: 1

30. ANS:

**a.** floor 7**b.** floor  $-8$ 

PTS: 2

31. ANS:

**a.**  $(-2 \cdot -8) + (-2 \cdot 5)$ **b.**  $7(2 - 12)$ **c.**  $(x \cdot 9) + (x \cdot -5)$ 

PTS: 3

32. ANS:

2 and  $-28$ 

PTS: 2

33. ANS:

9 and  $-9$ 

PTS: 2

34. ANS:

**a.**  $-30$       **b.**  $-19$       **c.** 12      **d.** 5

PTS: 4

35. ANS:

$$\frac{4(5+3)}{(4 \times 5) + (4 \times 3)}$$

PTS: 2

36. ANS:

**a.** mean temperature =  $(17 + 0 + -9 + -3 + 10) \div 5 = (15) \div 5 = 3^{\circ}$

**b.**  $17 - -9 = 26^{\circ}$

PTS: 3